DOE Transition to Entrust SSP: ANL Perspective
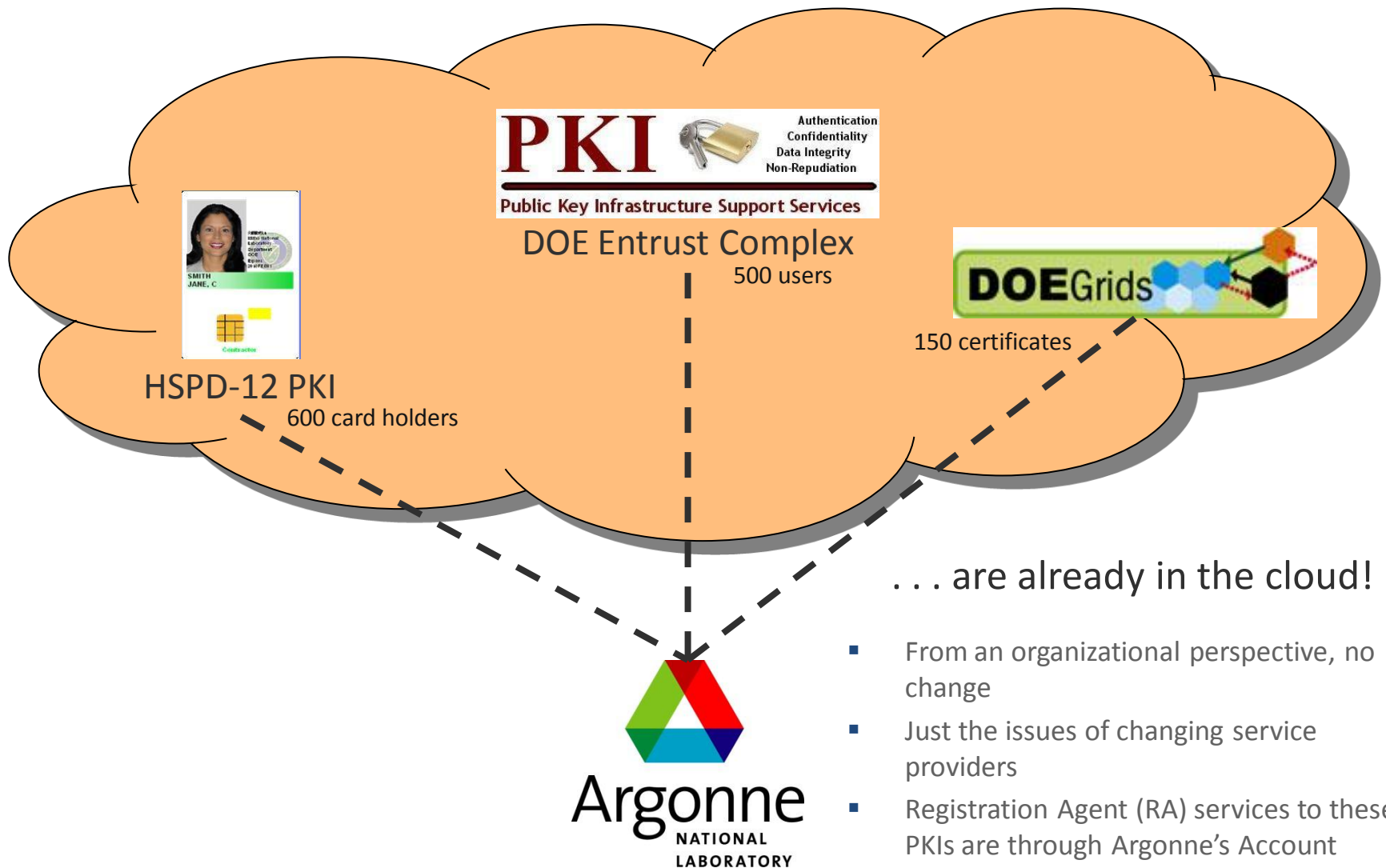
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Argonne Personnel Certificate Suppliers . . .

PKI

Authentication
Confidentiality
Data Integrity
Non-Repudiation

Public Key Infrastructure Support Services

DOE Entrust Complex

500 users

DOEGrids

150 certificates

SMITH
JANE, C

HSPD-12 PKI

600 card holders

. . . are already in the cloud!

- From an organizational perspective, no change
- Just the issues of changing service providers
- Registration Agent (RA) services to these PKIs are through Argonne's Account Services Office
- Trusted agents within 10 divisions

Argonne
NATIONAL
LABORATORY

Expected Benefits

- Cost Savings: 80% per user certificate, estimated

- Cross certification/acceptance to federal bridge

DOE-HQ Entrust   Entrust SSP

- Risk/Effort reduction
  - Removal of need to access DOEnet. Presently Argonne has a VPN tunnel into DOEnet to access certificate authorities and directories.
  - Removal of risk to DOEnet
  - Removal of effort to maintain VPN connection
  - Removal of Interconnection Security Agreement (ISA)
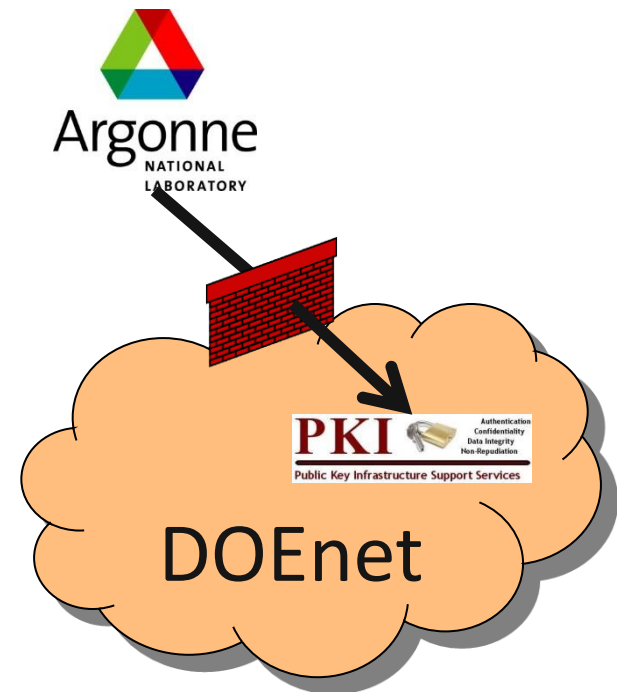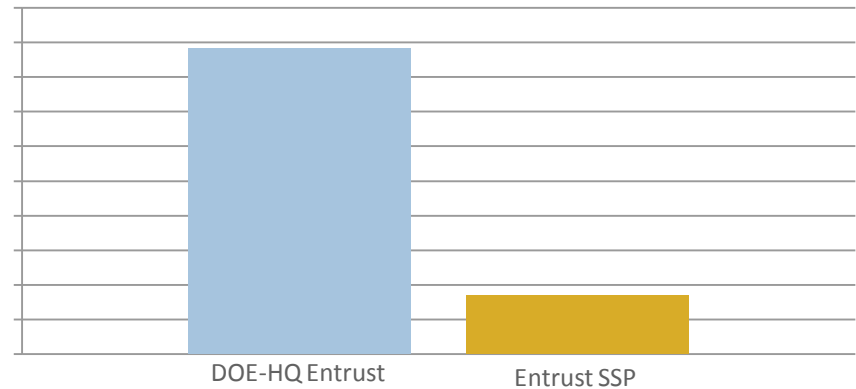
Impacts

- Unknowns
  - Access to client software
  - Frequency/requirements for software upgrades
  - Billing process
  - Changes to the Interconnection Security Agreement (ISA)
  - Registration authority requirements
  - Subscriber vetting requirements

- Hopes
  - Automatic trust of other agency certificates: PIV, DOD, DHS, etc. I would like to be able to globally trust the PIV root, the DOD root, the DHS root.

- Downsides
  - Another client software change/replacement

Questions or Comments?